

BARATOV, Georgiy Fedorovich; SOKOLENKO, I.P., red.; TALAN, F.S.,
red.; CHUCHUPAK, V.D., tekhn. red.

[Population protection in an atomic, chemical, and
bacteriological war] Zashchita naseleniia v usloviakh prime-
neniia atomnogo, khimicheskogo i bakteriologicheskogo oru-
zhiia. Pod obshchei red. I.P.Sokolenko. Kiev, Gosmedizdat,
1962. 423 p. (MIRA 16:2)

(Russia—Civil defense)

SOKOLENKO, M.P.

Increasing the productivity of evaporation stations. Sakh. prom.
31 no.5:31-32 My '57. (MLRA 10:6)

1. Bichurskiy sakharney zavod.
(Sugar industry)

SOKOLENKO, M.P.

~~Nonautomatic condensed water removal. Sakh. prom. 32 no.3:52-53~~
Mr '58. (MIRA 11:4)

1. Bichurskiy sakharanyy zavod.
(Sugar industry)

LYUBIMOVA, R.; SOKOLENKO, N.

The trade-union council conducts legal inspections. Okhr.
truda i sots.strakh. no.10:26-28 0 '59. (MIRA 13:2)

1. Pravovyye inspektora Moskovskogo gorodskogo soveta
profsoyuzov.
(Moscow--Trade unions)

MOISEYEV, S., inzh.po tekhnike bezopasnosti; KALINOVSKIY, P., mekhanik;
 SHALOMOV, B., yuriskonsul't; TALANOVA, N., inzh.po tekhnike
 bezopasnosti; BYCHKOVA, I., inzh.; VORONOV, A., elektrik; SOKOLENKO,
 N.; KUTUZOV, P.; TOPYRIK, P., pensioner; FEDYUKOV, G., inzh.po
 tekhnike bezopasnosti; CHECHETKIN, A.; KLIMENT'YEVA, Ye.

Those, who serve us. Okhr. truda i sots. strakh. 3 no.7:52-53 J1
 '60. (MIRA 13:8)

1. Reydovaya brigada. 2. Moskhladokombinat imeni Mikoyana (for Moiseyev).
3. Upravleniye Mosgorplodoovoshch (for Kalinovskiy).
4. Tsentral'nyy universal'nyy magazin Voyentorga (for Shalomov).
5. Gosudarstvennyy universal'nyy magazin, Moskva (for Talantova).
6. Obshchestvennyy inspektor okhrany truda Mostorgstroya (for Bychkova).
7. Obshchestvennyy inspektor okhrany truda Mosrybokombinata (for Voronov).
8. Pravovoy inspektor Moskovskogo gorodskogo soveta profsoyuzov (for Sokolenko).
9. Obshchestvennyy inspektor okhrany truda kholodil'nika No.1, Moskva (for Kutuzov).
10. Moskovskiy rybokombinat (for Fedyukov).
11. Korrespondent gazety "Sovetskaya trgovlya" (for Chechetkin).
12. Zaveduyushchaya otделom profsoyuznoy zhizni gazety "Sovetskaya trgovlya" (for Kliment'yeva).
13. Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for Gromov).

(Warehouses--Safety measures)
 (Retail trade--Safety measures)

SOKOLENKO, N.

The foreman is a central figure in educational work. Prof.-tekh.
obr. 19 no.3:21-22 Mr '62. (MIRA 15:4)

1. Pomoshchnik direktora po kul'turno-vospitatel'noy rabote
uchilishcha mekhanizatsii sel'skogo khozyaystva No.1 Krasnodarskogo
kraya.

(Farm mechanization--Study and teaching)

SOKOLENKO, N.

Who should conduct political information sessions? Prof.-tekh.
obr. 20 no.5:25 My '63. (MIRA 16:7)

1. Pomoshchnik direktora khanskogo sel'skogo professional'no-
tekhnicheskogo uchilishcha No.2 Krasnodarskogo kraya.
(Communist education)

RAGOZIN, P.S., gornyy inzh.; GURIN, V.M., gornyy inzh.; SOKOLENKO, N.F.,
gornyy inzh.

Developing 451 m of incline in a month. Ugol' Ukr. 7 no.7:45
Jl '63. (MIRA 16:8)

(Coal mines and mining---Labor productivity)

30876. SOKOLENKO, N. F. AND VENGRENOSKIY, S. I.

Rabota s kormovymi travami. V sb: Nauch. trudy Vsesoyuz. selekts.-genet.
in-ta im. Lysenko. M., 1949, s. 162-82.

RUSSIAN, S. S.

21872 BOGOLENKO, N. F. O vyrashchivanii semoninkov lyutserny pri
letnem genero po chistym param. Seleksiya i semenovodstvo,
1949, no. 7, s. 60-63.

NO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

SOKOLENKO, N. F.

Odessa Province - Alfalfa

Summer sowing of alfalfa in Odessa Province
Sov. agron. 10 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress,
August, 1952. UNCLASSIFIED.

M-5

USSR / Cultivated Plants. Forage Crops.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73028.

Author : Sokolenko, N. F.; Petrukhina, N. I.
Inst : All-Union Selection-Genetic Institute.
Title : High Seed Harvests of Fodder Melon Crops.

Orig Pub: Byul. Vses. selekts.-genet. in-ta, 1957, No 3, 14-17.

Abstract: In 1955, as a result of raising fodder and table varieties of squash and watermelon, hybrids were obtained which possess high harvest yield and higher content of nutrient matter in the fruits. Thus, the harvest of "Stofuntovoy" squash comprised 137.7 c (control) with its free pollination with "Ispanskoy" squash - 145.3 c, and with pollination by a mixture of pollen of the "Ispanskaya" and "Medovaya belaya" varieties (in the latter's pol-

Card 1/2

USSR / Cultivated Plants. Forage Crops.

M-5

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73028.

Abstract: len) 189.5 c was obtained from 1 hectare. In the fruit of the "Stofuntovoy" squash, dry matter was 4.55%; sugar 2.82%; and the hybrid "Stofuntovoy" x "Ispanskaya" (with use of isolation of flowers) gave respectively 7.35 and 5.28%. -- Ye. T. Zhukovskaya.

Card 2/2

Country : USSR
Category: Cultivated Plants. Potatoes. Vegetables, Melons.

M

Abs Jour: RZhBiol., No 11, 1958, No 48930

Author : Sokolenko, N.F.

Inst : -

Title : Potatoes Suitable for Summer Planting Periods.

Orig Pub: Kolgospnik Ukraini, 1957, No 5, 35-36.

Abstract: No abstract.

Card : 1/1

APPROVED FOR RELEASE: 08/25/2000

USSR / Cultivated Plants

Ref Zhur-Biol.

CIA-RDP86-00513R001651920017-9"

M-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25081

Author : Sokolenko, N. F.

Inst : The All-Union Selection and Genetics Inst.

Title : Alfalfa Cultivation on Production Fields in the Steppe Rayons of the Ukrainian SSR

Orig Pub: Zemledeliye, 1957, No 6, 33-39

Abstract: According to the findings of a number of years made by the All-Union Selection and Genetics Institute in Odesskaya Oblast', alfalfa summer sowings guarantee a high yield through a number of years. Good hay crops were gotten in 1949-1951 with the summer sowing of alfalfa at the "Askaniya Nova" farm in Khersonskaya Oblast' and at the sovkhoses of Odesskaya Oblast'. Seed harvests were obtained with summer sowing in the kolkhozes in 1949-1951

Card 1/2

SOKOLENKO, N.F.

Nodule formation on the roots of alfalfa sown in summer [with summary in English]. Mikrobiologii 27 no.3:335-339 My-Je '58
(MIRA 11:9)

1. Vsesoyuznyy selektsionno-geneticheskiy institut im. T.D. Lysenko, Odessa.

(ALFALFA)
(ROOT TUBERCLES)

SOKOLEUKO, N. F., Doc Agric Sci (diss) -- "Agroclimatic and biological principles of cultivating lucerne in the steppes of the Ukrainian SSR". Kiev, 1960. 33 pp (Min Agric Ukr SSR, Ukr Acad Agric Sci), 270 copies (KL, No 15, 1960, 137)

MUSIYKO, A.S., doktor sel'khoz. nauk, otv. red., BERCHENKO, B.E., red.,
kand. sel'khoz. nauk; VENGRENOVSKIY, S.I., kand. sel'khoz.
nauk, red.; VERESHCHAKA, A.I., kand. sel'khoz. nauk, red.;
GARKAVYY, P.F., kand. sel'khoz. nauk, red.; DOLGUSHIN, D.A.,
akademik, red.; KIRICHENKO, F.G., akademik, red.;
PUKHAL'SKIY, A.V., kand. sel'khoz. nauk, red.; SOKOLENKO,
N.F., doktor sel'khoz. nauk, red.; KHITRINSKIY, V.F., doktor
sel'khoz. nauk, red.; SMIRNOV, F.V., red.; TETUYUREVA, I.V.,
red.; MAKHOVA, N.N., tekhn. red.

[Towards the development of Michurinist agrobiological
theories] Za razvitie michurinskoj agrobiologicheskoi nauki;
materialy... Moskva, Sel'khozizdat, 1963. 350 p.

- (MIRA 16:10)
1. Nauchnaya konferentsiya, posvyashchennaya 50-letiyu
Vsesoyuznogo Ordena Lenina i Ordena Trudovogo Krasnogo Zna-
meni selektsionno-geneticheskogo instituta imeni T.D.
Lysenko. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'sko-
khozyaystvennykh nauk imeni V.I.Lenina, direktor Vsesoyuz-
nogo selektsionno-geneticheskogo instituta imeni T.D.Lysenko
(for Musiyko). 3. Vsesoyuznaya akademiya sel'skokhozyay-
stvennykh nauk imeni V.I.Lenina (for Kirichenko, Dolgushin).
4. Vsesoyuznyy selektsionno-geneticheskii institut imeni
T.D.Lysenko (for Kirichenko, Vengrenovskiy, Garkavyy).
5. Glavnyy uchenyy sekretar' prezidiuma Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for
Pukhal'skiy).

(Plant breeding) (Plants, Cultivated)

SOKOLENKO, N.F., doktor sel'skokhoz.nauk

Summer planting of tubers for the production of seed potatoes
as an important factor in southern potato growing.
Agrobiologiya no.6:840-850 N-D '65.

(MIRA 18:12)

1. Vsesoyuznyy selektsionno-geneticheskiy institut, g.
Odessa.

1. IVANOV, A.Ya., SOKOLENKO, N.Ya.

2. USSR (600)

7. Vrediteli i Bolezni Ovoschnykh, Bakhchevykh Kul'tur i Kartofelya v Tadzhikskoy SSR i Mery Bor'by s Nimi (Pests and Diseases of Vegetable and Melon Crops and of the Potato in the Tadzhik SSR and Measures for Combatting Them), 68pp, Stalinabad, 1951.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

USSR / General and Special Zoology. Insects. Harm-
ful Insects and Mites. Fruit and Berry Crop
Pests. P

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2339.

Author : Sokolenko, N. Ya.
Inst : Tadzhik Scientific-Research Institute for Horti-
culture, Viniculture and Subtropical Cultures.
Title : Chemical Means of Controlling the Codling Moth
(Carpocapsa pomonella).

Orig Pub: Byul. nauchno-tekhn. inform. Tadzh. n.-i. in-t
sadovodstva, vinogradarstva i subtrop. kul'tur,
1957, vyp. 1, 12-14.

Abstract: In an experimental spraying of 3.3 ha of an
apple tree orchard in 1956 with a 0.4% (active
substance) DDT suspension at the rate of 40
litres per tree according to the ratios 1:2:1,

Card 1/3

45

USSR / General and Special Zoology. Insects. Harm-
ful Insects and Mites. Fruit and Berry Crop
Pests.

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2339.

Abstract: 2:1:1 and 1:1:1 there were damaged respect-
ively 7.2%, 8.0% and 11.2% of the fruit. The
ratio 2: 1: 1 is recommended in industrial prac-
tice; this permits the repetition of the treat-
ment in case of previous rains (frequent in the
first half of May). When the codling moth has
two hatchings, dusting according to the ratio
2:1 is recommended when the damage is great and
2:0 when the damage is small; when there is only
one hatching (on Pamir) dusting according to the
ratio 2:0 is recommended irrespective of the dam-
age. In a 1956 experiment, when trapping belts
made from wrapping paper, saturated with a 15%

Card 2/3

SOKOLENKO, N. Ya.; SHUMAYEV, A. D.; VOLYNSKAYA, Ye. I.

Multiplication of the leaf beetle *Theone* (*Leptosonyx*)
silphoides Dalm in the pastures of Kazakhstan. Zashch. rast.
ot vred. i bol. 5 no.10:53-54 0 '60. (MIRA 16:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut zashchity
rasteniy, Alma-Ata.

(Kazakhstan—Wormwood—Diseases and pests)
(Kazakhstan—Leaf beetles)

SKORODINSKAYA, V.V., starshiy nauchnyy sotrudnik; SOKOLENKO, O.M., klinicheskiy
ordinator

Effect of enucleation on the function of the remaining healthy eye.
Uch. zap. UEIGB 4:380-383 '58. (MIRA 12:6)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney i tkanevoy
terapii imeni akademika V.P. Filatova.
(~~EYE~~--SURGERY) (VISION)

СКОРЕНКО, С.М.

Formation of a supporting rotor stump following amputation by the
use of acrylic resin (AKR-7) implants. Cf. zhur. 18 no. 7.
199.13. 199. (MIRA 1994.

1. In "Leningradskiy meditsinskiy institut."

KUROCHKIN, B.; KHARCHENKO, I.; PYATIBRATOV, Ya.; SOKOLENKO, V.

Electric locomotive builders need thermosetting insulation
lacquers. Mlek. i tepl.tiaga 2 no.12:8 D '58.

(MIRA 12:1)

1. Direktor Novochoerkasskogo elektrozostroitel'nogo zavoda
(for Kurochkin). 2. Predsedatel' zavodskogo komiteta profsoyusa
Novochoerkasskogo elektrozostroitel'nogo zavoda (for Kharchenko).
 3. Sekretar' partkoma Novochoerkasskogo elektrozostroitel'nogo
zavoda (for Pyatibratov). 4. Sekretar' komiteta Vsesoyuznogo
Leninskogo kommunisticheskogo soyusa molodezhi Novochoerkasskogo
elektrozostroitel'nogo zavoda (for Sokolenko).
- (Electric locomotives) (Insulating materials)
(Lacquers and lacquering)

MOSHCHINSKAYA, N. K.; SILIN, N. F.; DMITRENKO, Ye. Ye.; LIBERZON, V. A.;
LOKSHIN, G. B.; KORCHAGINA, A. M.; Prinimali uchastiye:
ZAL'TSMANOVICH, T. A.; MAMEDOV, A. A.; SAPSOVICH, L. V.;
SOKOLENKO, V., student; ZEMLYANSKAYA, L., studentka

Preparation of aromatic dicarboxylic acids and their chlorides.
Neftekhimia 2 no.4:541-549 J1-Ag '62. (MIRA 15:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut imeni
F. E. Dzerzhinskogo.

(Acids, Organic) (Chlorides)

44348

S/200/62/000/010/002/002
D204/D307

5.3600

AUTHORS:

Vorozhtsov, N.N. (Jr.), Sokolenko, V.A. and Yakobson, G.G.

TITLE:

Aromatic derivatives of fluorine. XI. The preparation and reactions of 2-6, dinitrofluorobenzene (I)

PERIODICAL:

Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 10, 1962, 87-90

TEXT:

The new compound I (b.p. 150-155°C/10 mm Hg, m.p. 60-61°C) was smoothly prepared in 76-81% yields by heating 2,6-dinitrochlorobenzene (II) with anhydrous KF at 190°C. The F atom is activated by the adjacent electron-attracting NO₂-groups and may be readily displaced by nucleophilic reagents (MeOH, EtOH, PhOH, α- and β-naphthols: PhSH, aniline, piperidine) in the presence of KF, to give the corresponding 2,6-dinitrophenyl derivatives in ~80-90% yields. 2,6-dichlorofluorobenzene was made in up to 60% yields by the action of chlorine on I at 230-240°C, by the stepwise replacement of the nitro groups. The intermediate product, 2-fluoro-3-

Card 1/2

Aromatic derivatives ...

S/200/62/000/010/002/002
D204/D307

chloronitrobenzene, was also isolated. 1,2,3-Trichlorobenzene and 2,3-dichloronitrobenzene were similarly prepared from II. Chlorination of 2,6-dinitrohalogenobenzenes thus offers a method of obtaining benzene derivatives which are generally difficult to prepare. There are 2 tables.

ASSOCIATION: Institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR, Novosibirsk (Institute of Organic Chemistry,
Siberian Branch of the AS USSR, Novosibirsk) ✓

SUBMITTED: July 23, 1962

Card 2/2

SOKOLENKO, V.A.; ORLOVA, L.V.; GERSHTEYN, N.A.; YAKOBSON, G.G.

Kinetics of the reaction of hexafluorobenzene with sodium methylate.
Kin. i kat. 6 no.2:365 Mr-Ap '65. (MIRA 18:7)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

ACC NR: AP6025595

SOURCE CODE: UR/0413/66/000/013/0033/0033

INVENTORS: Vasil'kovskiy, A. A.; Nechipurenko, V. V.; Sokolenko, V. I.

ORG: none

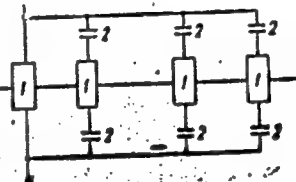
TITLE: Multilayer film Hall emf detector. Class 21, No. 183248

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 33

TOPIC TAGS: Hall effect, hf component, *electromagnetic property*

ABSTRACT: This Author Certificate presents a multilayer film Hall emf detector according to Author Certificate No. 119556. To use the detector for measuring high frequency power, capacitors deposited between the current electrodes of neighboring layers are connected in parallel relative to the controlling current in the loops joining the remaining layers of the detector (see Fig. 1).

Fig. 1. 1 - detector layers; 2 - capacitors



Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 05Apr65

Card 1/1

UDC: 621.317.7

SOKOLENKO, Ye.

Bitumen sampler. Neftianik 5 no. 12:22 D '60. (MIRA 13:12)
(Bitumen--Analysis)

SOKOLENKO, Ye., inzh.

Stuffing box for a piston pump. Neftianik 6 no.7:24 J1 '61.
(MIRA 14:7)

1. Khersonskiy neftepererabatyvayushchiy zavod.
(Pumping machinery)

MESTER, I.M.; SAKSONOV, V.N.; GUMMEL', A.Ya.; SOKOLENKO, Yu.V.

Structural parameters and results of the industrial testing
of telemetering apparatus for measuring methane concentrations
in mine air. Nauch. trudy KNIUI no. 11:299-313 '62.
(MIRA 17:7)

28-3-25/33

AUTHOR: Sokolenkov, V.A. Engineer

TITLE: On the Normalization-Inspection of Technical Documentation
(O normalizatsionnom kontrole tekhnicheskoy dokumentatsii)

PERIODICAL: Standartizatsiya, 1957, No 3, May-June, p 83(USSR)

ABSTRACT:

It is the task of the normalization-inspection at the plants to check compliance with the established standards, norms and the like, and to see that normalized or unified parts and components are employed as much as possible. But the practice differs at the plants of the electrical industry. The Cherbokhsary Electric Apparatus Plant serves as an example. Here the normalization-inspection is the last step in completing the technical documents and it is practiced after the technology is fixed, everything is being correspondingly adjusted throughout the plant. The technologists then object to making any more precise entries in the technical documents, which is understandable, even if wrong indication of dimensions and tolerances is revealed. The author thinks that general instructions have to be issued that would become obligatory for all enterprises and organizations and that the inspection ought to be made twice - a preliminary inspection right after comple-

Card 1/2

On the Normalization-Inspection of Technical Documentation

28-3-25/33

ting the drawings and a final inspection as in the instruction
on normalization for industrial branches.

ASSOCIATION: Cheboksary Electric Apparatus Plant (Cheboksarskiy elektro-
apparatnyy zavod)

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Sokolenkov, V.A., Engineer, 28-58-3-33/39

TITLE: Faults of Normalization Work in the Electrotechnical Industry
(Nedostatki raboty po normalizatsii v elektrotekhnicheskoy promyshlennosti)

PERIODICAL: Standartizatsiya, 1958, Nr 3, pp 84-95 (USSR)

ABSTRACT: The absence of standards within the electrotechnical industry and the lack of recommendations for the use of the standards effective within the other industries has brought about too large assortments of parts and designs for identical purposes differently produced or designed by different plants. The case of magnetic control stations is described to illustrate the situation. The Cheboksary Electric Apparatus Plant until now has been using its own ~~norm~~-standard of 1945 for tolerances of plastic parts. The designing organization TsKB "Elektropri-vod" has not yet revised its 1951 norms for magnetic control stations, though new norms have been since developed. The author says that the base organization for normalization and standardization of the electric industry, TsBSN NII, must become a center where information on any plant's norms is obtainable, and that the norms will be on the modern technical level

Card 1/2

1. Faults of Normalization Work in the Electrotechnical Industry 28-58-3-33, '39

only when highly skilled engineers, designers and technologists will participate in developing them.

ASSOCIATION: Cheboksarskiy elektroapparatnyy zavod (Cheboksary Electric Appliance Plant)

Card 2/2

1. Electrical industry--Standards

SOKOLENKOV, V.A.; PANICHEV, V.A.

Standard for construction drawings. Standartizatsiia 25
no.10:29-30 0 '61. (MIRA 14:9)
(Mechanical drawing--Standards)

SOKOLENKOV, V.A.; TVORTSOV, M.K.

Seminar on standardization in Chuvashia. Standartizatsiia 27
no.2:52-53 F '63. (MIRA 16:4)

(Chuvashia—Standardization)

VERSANU, V.; SOKOLESKO, M.; PAROTA, P.

"Coxa magna" as a roentgenographic sequel of local antibiotic therapy of coxitis in children. Khirurgiia 15 no.2/3:269-271 '62.

1. Iz Detska klinika po khirurgiia i ortopediia - Bukuresht.
(TUBERCULOSIS OSTEOARTICULAR ther) (HIP dis)
(ANTITUBERCULAR AGENTS ther)

SOKOLEV, B.I.

Efficient organization of testing is an urgent objective of state
testing laboratories for measuring equipment. Izv.tekh. no.12:
3-4 D '60. (MIRA 13:11)

(Measuring instruments--Testing)

SOIKOLEV, D. A.; AVDENTOV, S. A.

Looms

Use of spare shuttles on automatic looms.
Tekst. prom., 12, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

56 15.8300

68707

S/069/60/022/01/016/025
D034/D003

AUTHORS: Fel'dman, R.I., Sokolev, S.I.

TITLE: On the State of Aggregation of High-Molecular Compounds, 6. The Rupture Characteristics of Anisotropic Polycaprolactam Films

PERIODICAL: Kolloidnyy zhurnal, 1960, Vol XXII, Nr 1, pp 97-100 (USSR)

ABSTRACT: The authors report on a study intended to establish the ultimate elongation (ξ) and the breaking stress (σ) of anisotropic polycaprolactam film specimens. The specimens were cut out from the film in different directions with an interval of 15° . The film was obtained with industrial methods by forcing the melt through a slotted die on a water-cooled drum, the mass being subsequently elongated by 300%. The molecular weight of the polyamide was ~ 14000 . The specimens had a working

Card 1/3

68708

S069/60/022/01/016/025

D034/D003

On the State of Aggregation of High-Molecular Compounds 6. The Rupture Characteristics of Anisotropic Polycaprolactam Films

length of 25 mm, a width of 5 mm, and a thickness of 0.06 mm. The elongation curves were plotted up to the breaking point with the Polyan' dynamometer ("dynamometr tipa Polyani"). The elongation was carried out at a speed equal to 2 mm/min and at $t = 20 \pm 0.5^\circ\text{C}$. For the relative ultimate elongation (ϵ_x) and breaking stress (σ_x) as a function of the angle between the direction of the orientation and of the stretching force the authors obtained the following expression

$$\epsilon_x = \epsilon_0 + (\epsilon_{90} - \epsilon_0) [1 - \sin(90^\circ - x)] \quad \text{and}$$

$$\sigma_x = \sigma_0 - (\sigma_0 - \sigma_{90}) \sin x$$

Card 2/3

68707

S/069/60/022/01/016/025
D034/D003

On the State of Aggregation of High-Molecular Compounds 6. The
Rupture Characteristics of Anisotropic Polycaprolactam Films

($\xi_0, \sigma_0, \xi_{90}, \sigma_{90}$ - relative ultimate elongation (%)
and breaking stress (kg/mm^2), when angle x equals 0
and 90° respectively). The correlations have been inter-
preted from the viewpoint of the flexural fold hypo-
thesis of crystalline polymer chains that unfold on
stretching. The authors express their gratitude for
help to N.I. Fel'dman. There are 2 graphs and 1 Soviet
reference.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya,
Moskovskiy oblastnoy pedagogicheskiy institut im. N.
K. Krupskoy (Moscow Institute of Chemical Machine Build-
ing, Moskovskaya Oblast' Pedagogical Institute imeni
N.K. Krupskaya)

SUBMITTED: May 15, 1958

Card 3/3

1. SONENSKIY, A. P.; Elyukberg, V. A.
2. USSR (600)
3. Results of the Leningrad Conference on High Speed Methods for Machining of Metals by Cutting, Machine Tools and Instruments No. 9, Sep. 1948
9. Compilation of Information of the USSR Machine and Machine Tools Industry Contained in Soviet Publications. [REDACTED] [REDACTED]

SOKOLIC, A.
SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degree: [not given]

Affiliation: Institute for Application of Nuclear Energy in Agronomy,
Veterinary Medicine, and Forestry (Institut za primenu
XXXXXX nuklearne energije u poljoprivredi, veterinarstvu i
sumarstvu), Belgrade

XXXXX

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 455-464.

Data: "Vaccination of Sheep with Irradiated Larvae Dictyocaulus Filaria.
I. The Effect of Irradiation Dose on the Growth and Pathogenesis
of Parasites."

Authors:

JOVANOVIC, M.

NEVENIC, V.

✓ SOKOLIC, A.

SOFRENOVIC, Dj.

GLIGORIJEVIC, J.

CUPERLOVIC, K.

MOVSESIJAN, M.

SOKOLIC, A.

SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: / not given /

Affiliation:

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 505-510.

Data: "Contribution to the Treatment of Fasciolosis with Oral and Subcutaneous Application of Carbone Tetrachloride."

Authors:

BUGARSKI, V., / presumed affil. / Veterinary Center (Veterinarski zavod), Zemun.
MLADENOVIC, Z., / presumed affil. / Veterinary Center, Zemun.
ZARULA, S., / presumed affil. / Veterinary Center, Zemun.
SOKOLIC, A., / presumed affil. / Institute for Invasion Diseases of the Faculty
of Veterinary Medicine) Institut za invazione bolesti Veterinarskog fakulteta)
Belgrade.
NEVENIC, V., / presumed affil. / Institute for Invasion Diseases of the
Faculty of Veterinary Medicine, Belgrade.

JOVANOVIĆ, M.; NEVENIĆ, V.; SOKOLIĆ, A.

Iodine irradiation applied in the immunization of animals
against parasitic diseases. Bul sc Youg 7 no.1/2:14
F-Ap '62.

i. Institut za primjenu nuklearne energije u poljoprivredi,
veterinarstvu i sumarstvu, Beograd.

*

KRALJEVIC, Ljubomir, sanitetski pukovnik doc. dr.; JAKOBUSIC, Augustin, sanitetski pukovnik dr.; SOKOLIC, Josip, sanitetski kapetan I klase dr.; IVANCEVIC, Dusan, sanitetski kapetan dr.

Use of plastic elastic mesh in repairing extensive defects of the diaphragm, thoracic and abdominal wall and recurrent hernias. Vojnosanit Pregl. 20 no.10:637-644 O '63.

Transplantation of Organs and Tissues

YUGOSLAVIA

KRALJEVIC, Ljubomir; and SOKOLIC, Josip, Department of Surgery of Military Hospital (Kirurški odelj Vojna bolnice), Split

"Rejection of Implanted Alloplastic Vascular Segment Following Surgical Repair of Femoral Artery Following Trauma"

Zagreb, Liječnički Vjesnik, Vol 88, No 6, June 1966; pp 645-647

Abstract: [English summary modified] Man aged 20 was wounded in the left leg; a 10 centimeter section of the femoral artery had to be excised and replaced with an alloplastic tube; 5 months later, the implant was rejected through the skin; fortunately the process of rejection was slow and gradual so that the leg remained viable, if inadequately supplied with blood. Patient photograph, 5 Yugoslav references (including 1 unpublished), 3 Western references. Manuscript received 18 Nov 65.

1/1

SOKOLIC, Petar, Doc., Dr.

Personal experience with laminar scleral resection in retinal detachment. Med. arh., Sarajevo 9 no.2:43-57 March-Apr 55.

1. Iz ocne Klinike Medicinskog fakulteta u Sarajevu-Sef: Prof.
Dr. V. Cavka.

(RETINAL DETACHMENT, surg.

laminar scleral resection. (Ser))

(SCLERA, surg.

resection, laminar, in retinal detachment. (Ser))

SOKOLIC, Petar, doc. dr. (Zagreb)

Present-day treatment of strabismus. Med. glasn. 9 no.7-8:271-
275 July-Aug 55.

(STRABISMUS, ther.
modern progr. (Ser))

SOKOLIC, Petar, Dr.

~~WHOLESALE~~

Critical considerations on attempted interpretation and exact graduation of ophthalmoscopic signs in hypertension and sclerosis. Lijec. vjes. 77 no.10-12:509-516 Oct-Dec 55.

(ARTERIOSCLEROSIS, manifestations,
ophthalmoscopy, interpretation & graduation. (Ser))
(HYPERTENSION, manifestations,
same.
(OPHTHALMOSCOPY, in various diseases,
arteriosclerosis & hypertension, graduation &
interpretation. (Ser))

SOKOLIC, Petar

Clinical picture of associated diseases of the fundus oculi.
Radovi Med. fak. Zagrebu 1:60-67 1956.

(EYE, DISEASES,
assoc. fundus lesions (Ser))

SOKOLIC, Petar

Rare congenital anomalies of the region of the macula.
Radovi Med. fak. Zagrebu 2:115-120 1956.

1. Iz Očne klinike Medicinskog fakulteta u Zagrebu (predstojnik
prof. dr. Zvonimir Pavisic).
(RETINA, abnormalities,
macular anomaly, case report (Ser))

SOKOLIC, Peter; GVOZDANOVIC, Vladimir

Considerations on clinical picture of traumatic hemianopsia. Radovi
Med. fak. Zagrebu 1:26-31 1957.

1. From the Ophthalmologic Clinic of Medical Faculty in Zagreb and
the Radiological Institute of Medical Faculty in Zagreb,
(HEMIANOPIA, case reports,
traum. (Ser))

SOKOLIC, Petar

Contribution to the interpretation of the principles of
skiascopy. Radovi med. fak., Zagreb 7 no.1:47-56 '59.
(REFRACTIVE ERRORS diag.)

SOKOLIC, Petar

Contribution of skiascopy by means of spherical lenses. Radovi
med.fak., Zagreb7 no.2:111-116 '59.
(REFRACTION OCULAR)

SOKOLIC, Petar

Pathogenic role of the uveal tract in acute congestive glaucoma.
Radovi med. fak., Zagreb 7 no.2:117-124 '59.
(GLAUCOMA etiol)

SOKOLIC, Petar

Punctum conjgatum retinae. Radovi med.fak., Zagreb 7 no.3:239-243
'59.
(REFRACTION OCULAR)

x

SOKOLIC, Patar, d-r

Use of iodine in corneal herpes. Med. arh., Sarajevo 13 no.1:43-49 Ja-F '59.

1. Iz Očne klinike i Odjela za fizikalnu medicinu Medicinskog fakulteta u Zagrebu.

(IODINE ther.)

(HERPES ther.)

(CORNEA dis.)

SOKOLIC, Petar, doc., d-r

Etiopathogenic and diagnostic problems of pseudoglaucoma.
Med. arh., Sarajevo 13 no.5:7-18 S-0 '59.

1. Očna klinika Medicinskog fakulteta u Zagrebu.
(GLAUCOMA)

SOKOLIC, Petar, dr.

A technic for intracapsular extraction of the cataract from
the viewpoint of ophthalmo-surgical education. Med arh.,
Sarajevo 14 no.1:11-19 Ja-F '60.

1. Ocna klinika Medicinskog fakulteta u Zagrebu.
(CATARACT EXTRACTION)

SOKOLIC, Petar, d-r

Clinical contribution to retinal tele-trauma. Med.arh., Sarajevo 14
no.5:37-43 S-O '60.

1. Očna klinika Medicinskog fakulteta u Zagrebu (Pretstojnik: prof.
d-r Zvonimir Pavisic)
(RETINA wds & inj)

SOKOLIC, Petar

Primary glaucoma as a manifestation of general disorders in the light
of current knowledge on the pathogenesis of glaucoma; Rad. med. fak.
Zagreb 9 no.1:71-81 '61.

(GLAUCOMA etiol)

SOKOLIC, Petar

Routine tonography with Schiotz' tonometer in our experience. Rad.
med. fak. Zagreb. 10 no.2:125-135 '62.
(INTRAOCULAR PRESSURE)

YUGOSLAVIA

SOKOLIC, Petar; Clinic for Eye Diseases (Klinika za ocne bolesti) Medical Faculty of University of Zagreb.

"Gonioscopic Analysis of Structural Anomalies of Filtration Angle in Cases with Congenital Glaucoma."

Zagreb, Radovi Medicinskog Fakulteta u Zagrebu, Vol 11, No 1, 1963; pp 11-21.

Abstract [English summary modified]: Review of literature, and case history data on 4 young boys with bilateral (though mostly asymmetrical) hydrophthalia and congenital glaucoma due mostly to aberrant insertion of iris, so as to obstruct the filtration angle. Four photographs with corresponding gonioscope diagrams; 14 Western references.

1/1

YUGOSLAVIA

SOKOLIC, Petar, Clinic for Eye Diseases (Klinika za Očne Bolesti),
Faculty of Medicine (Medicinski Fakultet), Zagreb.

"The Technique of 'Phaco-erysis' in Cases of Cataracts."

Zagreb, Radovi Medicinskog Fakulteta u Zagrebu, Vol 11, No 2, 1963, pp
109-118.

Abstract: [Author's English summary modified] The aforementioned technique consists of water- or hand-driven aspiration to produce a vacuum. The author has thus found it possible to extract cataracts directly without using the cataract hook in suitable cases, given a large corneal section and pupillary dilation. Vitreous loss is almost never a danger. The author has found that insufficient dilation in the pupil is the most important obstacle to success with this technique.

Three drawings, one photograph, one Yugoslav and 13 Western references of recent date.

1/1

ŠOKOLIC, Petar

The phacoemulsification technic in our cases of cataract. Rad. med.
Pak. Zagreb 11 no. 2:109-118, 1963.

Our clinical experiences with chymotrypsin used in various
quantities in various surgical techniques. Ibid. 193-203

SUKOLIN, Peter

Terminological suggestions regarding pigmented glaucoma. Rad.
med. fak. Zagreb 11 no.3:247-254 '63.

SOKOLICEK, J.; PECHACEK, V.

Resistance bridges OMEGA I, II, III. (Supplement) p. 1.
(SDELOVACI TECHNIKA, Vol. 5, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (HEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

37693
Z/039/62/023/006/001/003
D409/D301

9.7300

AUTHOR:

Sokolíček, Jiří, Engineer

TITLE:

Transistorized analog-to-digital converter

PERIODICAL:

Slaboproudý obzor, v. 23, no. 6, 1962, 317 - 326

TEXT:

The article lists the principles of analog-to-digital converters and describes the circuitry and functions of the "NR 10" analog-to-digital converter developed by the Research and Development Center of the METRA, National Enterprise, in Blansko. The fully-transistorized "NR 10" operates on the compensation principle, contains no moving parts, and features a high input resistance and novel decoders, and the converter function can be reversed. The high input resistance results from an unconventional comparator circuit wiring where the compensation voltage is derived over a series of conductances and switches from the precisely stabilized normal-voltage source, which, in turn, is supplied from two Zener diodes (5V/1.25W products of the TESLA Rožnov). This comparator

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Transistorized analog-to-digital ...

Z/039/62/023/006/001/003
D409/D301

wiring has several advantages; however, it requires coupling of binary representation to compensate for possible ambiguity of codes. A two-stage symmetrical amplifier, equipped with TESLA 156NU70 transistors, is used as comparator, and miniature selenium rectifiers are used to simplify the decoder design. Results are presented by Philips Z510M digital indicator tubes which will soon be replaced by TESLA 10TU26 tubes. Switching transistors TESLA 102NU71 had to be used instead of 103NU71, since the latter type is not yet available. The converter contains no moving parts such as mechanical contacts, relays, etc, and the measured-signal polarity is automatically converted. It is assembled in a standardized panel unit, measuring 465 x 135 x 300 mm, weighs approximately 16 kg, and most circuits are mounted on interchangeable, laminated 87.5 x 115 mm boards with plane-type wiring. Additional performance ratings of the "NR 10" converter are: Ranges - 10, 100, and 1,000 V; accuracy $\pm 0.1\%$; discrimination power = 0.05 % (5mV); conversion rate = 15 msec; input resistance in the 100 and 1,000 V range is given by the divider resistance (i.e.

Card 2/3

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D409/D301

Transistorized analog-to-digital ...

1 kSP / V), in the 10 V range given by the maximum current derived from the measured-voltage source which may vary from 0.5 mA prior to compensation to 0.25 μ A after compensation; permissible internal temperature = 15 - 35^o C; input 45 VA. The converter successfully passed operational tests; however, its accuracy greatly depends on the quality of transistors used, a problem which still remains to be solved by the TESLA Rožnov Plant. There are 23 figures. The most important English-language reference is: Klein-Williams-Morgan: High-Speed Digital Conversion. Instruments and Automation 29 (1956), July, no. 7, pp 1297-1302.

ASSOCIATION: METRA Blansko, n. p. (METRA Blansko, National Enterprise)

SUBMITTED: March 1, 1962

Card 3/3

43170
Z/039/62/023/011/001/003
E192/E382

61340
AUTHORS: Sokolíček, Jiří, Engineer and Nejezchleb, Lubomír

TITLE: Accurate transistor switches

PERIODICAL: Slaboproudý obzor, v. 23, no. 11, 1962, 609 - 614

TEXT: Transistors connected in common-emitter or collector circuits are most generally used for switching purposes. Apart from the minimum reverse collector current I_{c0} , one of the most important parameters of the transistor in switching applications is its voltage drop U_{z0} . This voltage was measured for both the common-emitter and collector connections as a function of the collector current I_c or emitter current I_e for various base currents I_b . It was found that $U_{z0} = f(I_c)$ or $U_{z0} = f(I_e)$ was approximately represented by a set of straight lines. When plotted as a function of I_b , the voltage U_{z0} showed a flat minimum, which suggested that, normally, the transistor should be operating with the biasing I_b in the vicinity of the minimum.

Card 1/2

Accurate transistor switches

Z/039/62/023/011/001/005
E192/E382

The dependence of U_{Z0} on temperature was also measured and it was found that between 15 and 35 °C the changes of U_{Z0} were insignificant. Some experiments were made on using a transistor as a voltage chopper (DC-to-AC converter) and it was shown that such circuits could be used for accurate switching work in automatic potentiometers, DC computing amplifiers, phase-detectors and DC modulators. There are 21 figures.

ASSOCIATION: NITRA Blansko, n.p. Blansko
(NITRA Blansko, State Works, Blansko)

SUBMITTED: June 4, 1962

Card 2/2

SOKOLICEK, Jiri, inz.

Conference on new technology in Brno. Slaboproudý obzor
25 no. 2: 111-112 F '64.

KHAVKIN, K.A.; SOKOLIK, A.F.; GAL'PERIN, I.M.

A machine computes the volume of earthwork. Avt.dor. 26 no.4:
21-22 Ap '63. (MIRA 16:4)

(Earthwork—Tables, calculations, etc.)
(Electronic computers)

SOKOLIK, Anatoliy Ioniasovich; CHARNETSKIY, Konstantin Konstantinovich;
FOMICHEV, Aleksey Georgiyevich; LYUSTIBERG, V.F., inzh., ved.
red.; YAKOVLEV, D.A., inzh., red.; SOROKINA, T.M., tekhn. red.

[High-voltage OK-19M oscillograph system] Vysokovol'tnaia os-
tsillograficheskaya ustanovka OK-19M. Moskva, Filial Vses. in-
ta nauchn. i tekhn. informatsii, 1958. 15 p. (Peredovoi nauchno-
tekhnicheskii i proizvodstvennyi opyt. Tema 35. No. P-58-25/2)
(MIRA 16:3)

(Cathode ray oscillograph)

SOKOLIK, Anatoliy Ioniasovich, kand. tekhn. nauk; BORTSOV, Viktor
Mikhaïlovich; POLYAKOVSKIY, Lev Yudelevich, inzh.;
LYUSTIBERG, V.F., inzh., ved. red.; SOROKINA, T.M., tekhn.
red.

[IV-13, IV-13M and IV-13MA time-interval indicators. TTU-5-55
three-channel strain-measuring amplifier] Izmeriteli interva-
lov vremeni IV-13, IV-13M i IV-13MA. Trekhkanal'nyi tenzo-
metricheskii usilitel' tipa TTU-5-55. [By] L.IU.Poliakovskii.
Moskva, Filial Vses.in-ta nauchn. i tekhn.informatsii, 1958.
17 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi
opyt. Tema 31. No.P-58-22/4) (MIRA 16:3)
(Automatic timers) (Strain gauges)

29319
S/109/61/006/010/017/027
D222/D302

9,4150 (1138)

AUTHOR: Sokolik, A.I. (Deceased)

TITLE: Equivalent circuit for the deflecting plates of a cathode-ray tube

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 10, 1961, 1718 - 1724

TEXT: The author shows that the simple single-loop equivalent circuit is applicable only when the corresponding LRC parameters of the two plate circuits are equal. A two-loop equivalent circuit is recommended which represents separately the circuits of the two deflecting plates and takes into account the capacitance between the inputs, and the resistance and inductance in the second-anode circuit. This work is a theoretical and practical investigation of the circuit. It was found experimentally that with millimicrosecond signals, the manner in which the damping resistor was connected in the deflecting plate circuit greatly influenced the distortion in

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S/109/61/006/010/017/027
D222/D302

Equivalent circuit for the ...

the oscilloscope trace. This indicates that the equivalent circuit should contain two LRC loops to represent adequately the circuits of the two deflecting plates. The proposed circuit is shown in Fig. 3, where the circuit elements marked with index 1 belong to the "active" plate, and those marked by 2 belong to the earthed plate. C_0 is the capacitance between the plates, C_1 and C_2 are the plate capacitances relative to the earthed electrodes of the tube, C_p is the capacitance between the input terminals, L_a and R_a are the inductance and resistance in the circuit connecting the second anode of the tube to the outer part of the signal cable which is chosen as the common ground. The mathematical analysis for the general case of this circuit is complicated, so the circuit was investigated by using a model in which the capacitances and inductances were 1000 times the values measured with a circuit containing a 13L05A cathode-ray tube. The surface effects and radiation losses, which contribute to the resistance of the plate circuits, were also taken into account in the model. Oscillograms obtained with the model show good qualitative agreement with the original trace. In

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Equivalent circuit for the ...

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D222/D302

the special case when all parameters of the two plate circuits are equal, the expression derived for the voltage across C_0 shows that the plate voltage is independent of the second-anode circuit parameters. This enables the equivalent circuit to be simplified and brought to the original single-loop form with the parameters L , R and C_e ; where $C_e = C + 2C_0$, $C = C_1 = C_2$. Thus the single-loop circuit can be used if the resistances, inductances and capacitances in the two plate circuits are equal, and the capacitance between the inputs can be neglected. The optimum value of the inductances for 4 % overshoot is given by $L = C_e(R_i + r_{o1})/2$, where R_i is the internal resistance of the generator, and r_{o1} is the resistance of the first plate circuit caused by the resistance of the input lead and by radiation. With smaller than optimum inductance values the overshoot becomes smaller, but the pulse rise time increases. In this respect, however, the case of identical plate circuit parameters is not optimal. Experiments show that the parameters in the "active" plate circuit have greater influence than those of the earthed plate. If L_1 is suitably reduced, the additional damping

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D222/D302

Equivalent circuit for the ...

resistor in many cases becomes unnecessary. By studying the influence of the individual circuit elements on the form of the signal the author succeeded in finding such an arrangement that a pulse rise time of 1.1 millimicroseconds was obtained. There are 10 figures, and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: E. Lewis and F. Wells, Millimicrosecond Pulse Techniques (Russian translation, IL, 1956). 4

SUBMITTED: January 15, 1960 (initially)
May 27, 1961 (after revision)

Card 4/5

| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
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| PROCESSES AND PROPERTIES MORE | | | | | | | | | | | | | | | | | | | |
| <p><i>2-1</i></p> <p>Specific heat of aqueous sulphuric acid. A. NORDLIE (J. Gen. Chem. Res., 1933, 2, 311--314).-- The sp. heat (C) of the system $H_2SO_4-H_2O$ has been measured at 80° and 60°. The results obtained, together with those of other authors, indicate that C for $H_2SO_4-H_2O$ obeys the simple mixture rule; for all other mixtures C is higher, due to formation of other hydrates.</p> <p>R. T.</p> | | | | | | | | | | | | | | | | | | | |
| <p>ASB-11A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | |
| 18000 STEEL | | | | | | | | | | 18000 STEEL | | | | | | | | | |
| 18000 STEEL | | | | | | | | | | 18000 STEEL | | | | | | | | | |

The electric conductivity of the flame in an internal-combustion engine. D. Abagov and A. Sokolik. *J. Exptl. Theoret. Phys.* (U. S. S. R.) 3, 438 (1933). The dependence of normal operation of internal-combustion engines on the elec. cond. of the flame is established. The analysis of a set of curves enables the estn. of the velocity of propagation of the burning zone in the engine, the velocity of the reaction and the persistence of the com-

bustion to the end of the cycle. In studying the conditions which det. the normal operation of the motor, relation is established between (1) the compression ratio, choking and compn. of the mixt., and (2) the velocity of flame propagation, the max. value of the ionization current and the persistence of ionization. The max. value of ionization current is increased and the persistence of ionization decreased by adding a detonation inducing substance to the fuel, the opposite is true when a nondetonation-inducing substance is added. Curves are given which show for the complete cycle the variation of ionization current with compression ratio, choking, speed of engine, compn. of air-fuel mixt. (rich and lean) and addn. of various detonation-inducing substances. The effects of detonation are illustrated by curves. Marie Gayer

ASD SLA METALLURGICAL LITERATURE CLASSIFICATION

67 24

Flame propagation in mixtures of methane with oxygen in closed tubes. A. SOKOLIK AND K. SICHILKIN. *J. Phys. Chem.* (U. S. S. R.) 4, 100-28 (1933). — Dixon's sound-wave theory of explosion propagation was not substantiated. There is no relation between vibration and detonation. The distance d of the explosion nucleus center from the spark decreases with increasing gas pressure, and increases with the length of the tubes and their vol., and is shorter for C_2H_6 than for CH_4 . This d is taken as the characteristic of the explosion, and it corresponds to the intensity of the explosion and explains the properties of explosions in the gas engine. Mixts. of C_2H_6 and CH_4 with O and C_2H_6 + CO were used.

ASD SLA METALLURGICAL LITERATURE CLASSIFICATION

Explosibility of oxygen mixtures of hydrocarbons of the aliphatic and aromatic series. A. SOKOLIN AND K. SICHTELKIN. *J. Phys. Chem.* (U. S. S. R.) 4, 129-31 (1933). Data on the spark inflammation, relative temp., pressure and spark distance are given. F. H. RATHMANN.

CIA-RDP86-00513R001651920017-9"

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | |
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| COMMON ELEMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | COMMON VARIABLES INDEX | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Detonation in gaseous mixtures. I. The principles of detonation characteristics of inflammable gas mixtures. A. Sokolik and K. Shchelkin. <i>Physik. Z. Sowjetunion</i>, 7:68-817(1933)(in English).—The predetonation length in a $\text{CH}_4\text{-O}_2$ mixt. drops with tube length at const. pressure, and is a min. for the compn. $\text{CH}_4 + 1.9 \text{ O}_2$. The velocity of the detonating wave in a stoichiometric mixt. is 2500 m./sec., const. to 7% between 100 and 500 mm. Consideration of the sign of the detonation wave shows that the ratio of the rate d. to the ignition temp. is a measure of the probability of detonation. Louis Goldman</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOELLER, A.S.

Gorenie i detonatsia v gazakh. Moskva, Gostekhizdat, 1934.

Title tr.: Combustion and detonation in gases.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

CR

Detonation in gas mixtures. II. The effect of pressure on the velocity of a detonation wave. A. Sokolik and K. Shcholkov. *Acta Physicochim. U. R. S. S. I.* 311-17 (1934) (in English) and *J. Phys. Chem. (U. S. S. R.)* 5, 1469-63 (1934).—At pressures from atm. down to the lower pressure limit, for mixts. of $H_2 + O_2$ and of $CH_4 + O_2$, the velocity of detonation changes with pressure in accordance with Jouguet's theory provided the change in the disson. value is taken into account. For the $CH_4 + 2O_2$ mixt., the velocity of the explosion wave increased from 1050 m./sec. at 60 mm. to 2576 at 760 mm. For $2H_2 + O_2$ the velocity was const. at 1730 m./sec. from 200 to 760 mm. The results are interpreted as showing that the variable velocity is due to variable disson. in the wave front. F. H. Rathmann

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ASAC-514 METALLURGICAL LITERATURE CLASSIFICATION

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Change of velocity of an explosion wave with pressure. A. Sokolik and K. Shchelkin. <i>Compt. rend. acad. sci. U. R. S. S. S.</i>, 102-4 (in English 104-5) (1934).—Measurements of velocity of explosion were made by the photographic method in an Fe tube contr. 2 glass segments 10 m. apart. For mixts. in which disson. causes an increase in vol. ($2H_2O + O_2$ and $CH_4 + 2O_2$), marked increase in vol. resulted when the initial pressure was increased from 200 to 700 mm. Where no change in vol. results from disson., as with $H_2 + Cl_2 = 2HCl$, the increase in velocity with increasing pressure was negligible. Jouguet's method of calcul., with allowance for disson., gives the same change in velocity although calcul. and observed values differ. C. G. Storm</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Function of electrically-charged particles in the propagation of flames. I. Propagation of flames in a transverse electric field. B. SKALAVY and A. SOKOLAK. (J. Phys. Chem. U.S.S.R., 1934, 8, 617-634).—In a 25% CO -air mixture the flame velocity was almost const. for transverse fields up to 11 kv. At 14 kv. the flame was extinguished. In a 44% CO mixture the velocity was a max. at 6 kv. at 400 mm. and at 9 kv. at 60 mm. pressure. A 27% C_2H_2 -air mixture gave a constantly decreasing velocity with increase in the applied voltage. A 5% C_2H_2 -air mixture gave extinction at 4 kv. at 400 mm. and 3 kv. at 600 mm. pressure. Ch. Ans. (c)

SOKOLIK, A.S., and A. VOINOV.

Le "cognement" dans un moteur a essence et l'onde explosive. (Technical Physics of the USSR, 1936, v.3, no.9, p.803-822, illus., diags., bibliography)

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SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Science.
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PROCESSES AND PROPERTIES INDEX

Explosive limits of gaseous mixtures. I. Explosion limits of mixtures of hydrogen and air. M. RIVIN and A. SOLOVICH (Acta Physicochim. U.R.S.S., 1938, 4, 301-316).—The conditions for initiating detonation waves have been investigated for H_2 -air mixtures. The curve for explosion limit as a function of pressure and % H_2 shows two min. which depend on energy of the igniting spark. With H_2 - O_2 mixtures the curve for explosion limits has a min. at 100 mm. and 55% H_2 . At 1 atm. explosion is possible between 23 and 85% H_2 . The velocity of the explosion wave does not agree with theory, owing probably to dissociation in the front of the wave. The propagation and extinction of the flame and change in pressure have been studied in a long tube below the explosion limit for H_2 and O_2 . R. S. B.

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ASACSLA METALLURGICAL LITERATURE CLASSIFICATION

"Knock" in a gasoline motor and the explosion wave.
A. Schotik and A. Volnov. *Tech. Phys. U. S. S. R.* 3, 803-
23(1936)(in French); *Bull. acad. sci. U. S. S. R., classe
sci. Math. nat., Sér. chim.* 1937, 123-41.—By the ultra-
rapid photographic method it has been possible to demon-
strate the formation of a detonation or explosive wave
with a velocity of the order of magnitude of 2000 m./sec.
in a gasoline motor during the phenomenon of "knock."
There have been recorded at the same time the formation
of a wave of detonation and the propagation of the waves
of the "knock," reflected periodically from the walls of
the chamber. The influence of the temp. of the cooling
liquid on the occurrence of the detonation has been
studied. The effect depends upon the richness of the
mixture. The relation between auto-combustion and detona-
tion has been investigated. Contrary to current opinion,
it is maintained that the occurrence of detonation in the
motor is due to retarded combustion, rather than ac-
celerated combustion. Harold Gershinowitz

Explosion limits of gaseous mixtures. III. Limits in mixtures of carbon monoxide and methane. M. Rivin and A. Sokolik. *J. Phys. Chem.* (U. S. S. R.) 8, 707-711 (1967); cf. *C. A.* 30, 4821p. As the concn. of H_2 in the mixt. $CO + H_2 + O_2$ increases, the pressure and temp. for self inflammation decrease and the flame velocity increases. Addn. of N_2 to $CH_4 + O_2$ mixts. broadens the explosion limits up to $[N_2]/[O_2] = 2$, above which no complete coincidence of the shock wave front and the reaction front or a slight lag of the latter, depending on the gas mixt. used.

F. H. Rathmann

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Knocking in internal-combustion motors, and the detonation wave. A. SOKOLIK and A. VOINOV (Bull. Acad. Sci. U.R.S.S., 1937, 133-142).—A detonation wave with a velocity of propagation of about 2000 m./sec. is associated with knocking. This is due to slow propagation of the flame, with presence of large amounts of peroxides in the unburnt gas.</p> <p>R. T.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 1ST AND 2ND CROPS | | | | | | | | | | | | | 3RD AND 4TH CROPS | | | | | | | | | | | | |
| <p>ca 21</p> <p>Isopropyl ether as a motor fuel. A. Sokolik and A. Volnov. <i>Tech. Phys. U. S. S. R.</i> 4, 638-00(1937) (in English).--Baku gasoline of 0.748 sp. gr., 60 octane rating, in a C. F. R. app. ($r_c = 0.6$, r. p. m. = 800) was the standard of comparison. Flame propagation was photographed, and details of this method are described. The rate of combustion and flame propagation are somewhat lower for di-isopropyl ether (I) than for iso-octane. Unlike ordinary motor fuels, I shows an abnormal effect of increasing engine speed. The octane no. obtained for I and its blends when tested by the "motor method" at 900 r. p. m. may therefore appear considerably lower when I is used at higher engine speeds. Considerable lowering of the antiknock properties of I results after storage at 15-20°, because of peroxide formation. The estn. of the antiknock values of motor fuels should not be limited to tests under the conventionally accepted standard conditions of carburetor and jacket temps., speed, etc., but should give an evaluation of the behavior of fuels when these factors are varied. Fifteen references.</p> <p style="text-align: right;">Sergius Kobernick</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASH-31.4 METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | |